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Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1 1. (currently amended): A system for dynamically identifying internal
 2 hosts in a heterogeneous computing environment with multiple subnetworks,
 3 comprising:
 - an analysis module analyzing a plurality of packets, each such packet comprising a source address of an originating host and a destination address of a receiving host; and
- 7 a classification module classifying an unknown originating host located at 8 the source address of an outbound packet as an inside host with high confidence, 9 classifying an unknown receiving host located at the destination address of an 10 inbound packet as an inside host, [[and]] reclassifying the unknown receiving host 11 as an inside host with high confidence upon receiving a further outbound packet 12 having a source address corresponding to the address of the unknown receiving 13 host, managing packet traffic flow by monitoring the packets and adjusting 14 control flow thereof, and ignoring packet traffic flow for each packet with an
- originating host or a receiving host classified as an inside host with high confidence.
- 2. (original): A system according to Claim 1, further comprising:
 the classification module further classifying an unknown originating host
 located at the source address of an inbound packet as an outside host.
- 3. (original): A system according to Claim 2, further comprising:
 the classification module reclassifying the unknown originating host as an
 inside host with high confidence upon receiving an outbound packet having a
 source address corresponding to the address of the unknown originating host.
 - 4. (original): A system according to Claim 1, further comprising:

2	the classification module further classifying an unknown receiving host
3	located at the destination address of an outbound packet as an outside host.

- 5. (original): A system according to Claim 4, further comprising:
 the classification module reclassifying the unknown receiving host as an
 inside host with high confidence upon receiving an inbound packet having a
 destination address corresponding to the address of the unknown receiving host.
- 6. (original): A system according to Claim 1, further comprising:
 the classification module maintaining the inside host with high confidence
 classification of the unknown originating host upon receiving at least one of
 further inbound packets and further outbound packets.
- 7. (original): A system according to Claim 1, further comprising:
 the classification module maintaining the inside host with high confidence
 classification of the unknown receiving host upon receiving at least one of further
 inbound packets and further outbound packets.
- l Claim 8 (canceled).
- 1 Claim 9 (canceled).
- 1 10. (original): A system according to Claim 1, wherein the packets are communicated via a point-to-point protocol.
- 1 11. (original): A system according to Claim 1, wherein the packets are communicated via an end-to-end protocol.
- 1 12. (original): A system according to Claim 1, wherein the packets are communicated via the TCP/IP protocol and each source address and destination address is an internet protocol (IP) address.
- 1 13. (currently amended): A method for dynamically identifying 2 internal hosts in a heterogeneous computing environment with multiple 3 subnetworks, comprising:

7	analyzing a pluratity of packets, each such packet comprising a source
5	address of an originating host and a destination address of a receiving host;
6	classifying an unknown originating host located at the source address of
7	an outbound packet as an inside host with high confidence;
8	classifying an unknown receiving host located at the destination address of
9	an inbound packet as an inside host; [[and]]
lO	reclassifying the unknown receiving host as an inside host with high
1 1	confidence upon receiving a further outbound packet having a source address
12	corresponding to the address of the unknown receiving host;
13	managing packet traffic flow by monitoring the packets and adjusting
4	control flow thereof; and
5	ignoring packet traffic flow for each packet with an originating host or a
6	receiving host classified as an inside host with high confidence.
1	14. (original): A method according to Claim 13, further comprising:
2	classifying an unknown originating host located at the source address of
3	an inbound packet as an outside host.
1	15. (original): A method according to Claim 14, further comprising:
2	reclassifying the unknown originating host as an inside host with high
3	confidence upon receiving an outbound packet having a source address
4	corresponding to the address of the unknown originating host.
1	16. (original): A method according to Claim 13, further comprising:
2	classifying an unknown receiving host located at the destination address of
3	an outbound packet as an outside host.
1	17. (original): A method according to Claim 16, further comprising:
2	reclassifying the unknown receiving host as an inside host with high
3	confidence upon receiving an inbound packet having a destination address
4	corresponding to the address of the unknown receiving host.
i	18. (original): A method according to Claim 13, further comprising:

_	шащ	aming the hiside nost with high confidence classification of the		
3	unknown orig	unknown originating host upon receiving at least one of further inbound packets		
4		atbound packets.		
1	19.	(original): A method according to Claim 13, further comprising:		
2	mainta	aining the inside host with high confidence classification of the		
3	unknown rece	iving host upon receiving at least one of further inbound packets		
4	and further ou	tbound packets.		
1	Claim	20 (canceled).		
1	Claim	21 (canceled).		
1	22.	(original): A method according to Claim 13, wherein the packets		
2	are communic	ated via a point-to-point protocol.		
1	23.	(original): A method according to Claim 13, wherein the packets		
2	are communic	ated via an end-to-end protocol.		
1.	24.	(original): A method according to Claim 13, wherein the packets		
2	are communic	ated via the TCP/IP protocol and each source address and		
3	destination add	dress is an internet protocol (IP) address.		
1	25.	(currently amended): A computer-readable storage medium		
2		or performing the method according to Claims 13, 14, 15, 16, 17,		
3	18, 19, 20 and	21 <u>and 19</u> .		
1	26.	(currently amended): A system for classifying hosts in a		
2	heterogeneous	computing environment, comprising:		
3	a table	storing records comprising a plurality of states which each specify		
1	a location of a	host relative to a network domain boundary, the states comprising:		
5		an Unknown state describing an undefined host;		
5		an Outside state describing a host located outside the network		
7	domain hounds	1977*		

O	an inside state describing a nost provisionally located inside the
9	network domain boundary; and
10	an Inside with High Confidence state describing a host located
11	inside the network domain boundary;
12	a traffic manager classifying the hosts based on source address with each
13	outbound packet originating from an Unknown state, Outside state or Inside state
14	into an Inside with High Confidence state and state, classifying the hosts based o
15	destination address with each inbound packet originating from an Unknown state
16	or Outside state into an Inside with High Confidence state, classifying the hosts
17	based on source address with each inbound packet originating from an Unknown
18	state into an Outside state, classifying the hosts based on destination address with
19	each outhound packet originating from an Unknown state into an Outside state,
20	and ignoring packet traffic based on source address or destination address with
21	each outbound packet and each inbound packet originating from an Inside with
22	High Confidence state.
1	Claim 27 (canceled).
1	28. (original): A system according to Claim 26, further comprising:
2	the traffic manager passing through packet traffic based on source address
3	with each inbound packet originating from an Outside state, Inside state or Inside
4	with High Confidence state and with each outbound packet originating from an
5	Inside with High Confidence state.
1	Claim 29 (canceled).
1	30. (original): A system according to Claim 26, further comprising:
2	the traffic manager passing through packet traffic based on destination
3.	address with each outbound packet originating from an Outside state, Inside state
4	or Inside with High Confidence state and with each inbound packet originating
5	from an Inside with High Confidence state.
1	Claim 31 (canceled).

•	52. (Original). A system according to Claim 26, wherein the
2	heterogeneous computing environment is IP compliant.
3	33. (currently amended): A method for classifying hosts in a
4	heterogeneous computing environment, comprising:
5	defining a plurality of states which each specify a location of a host
6	relative to a network domain boundary, the states comprising:
7	an Unknown state describing an undefined host;
8	an Outside state describing a host located outside the network
9	domain boundary;
10	an Inside state describing a host provisionally located inside the
1	network domain boundary; and
2	an Inside with High Confidence state describing a host located
3	inside the network domain boundary;
4	classifying the hosts based on source address with each outbound packet
.5	originating from an Unknown state, Outside state or Inside state into an Inside
6	with High Confidence state; [[and]]
7	classifying the hosts based on destination address with each inbound
8	packet originating from an Unknown state or Outside state into an Inside with
9	High Confidence state;
0	classifying the hosts based on source address with each inbound packet
l	originating from an Unknown state into an Outside state;
2	classifying the hosts based on destination address with each outbound
3	packet originating from an Unknown state into an Outside state; and
4	ignoring packet traffic based on source address or destination address with
5	each outbound packet and each inbound packet originating from an Inside with
5	High Confidence state.
1	Claim 34 (canceled).
l)	35. (original): A method according to Claim 33, further comprising:

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2 . passing through packet traffic based on source address with each inbound 3 packet originating from an Outside state, Inside state or Inside with High 4 Confidence state and with each outbound packet originating from an Inside with 5 High Confidence state. 1 Claim 36 (canceled). 1 37. (original): A method according to Claim 33, further comprising: 2 passing through packet traffic based on destination address with each 3 outbound packet originating from an Outside state, Inside state or Inside with High Confidence state and with each inbound packet originating from an Inside 4 5 with High Confidence state. 1 Claim 38 (canceled). 1 39. (original): A method according to Claim 33, wherein the 2 heterogeneous computing environment is IP compliant. 1 40. (currently amended): A computer-readable storage medium 2 holding code for performing the method according to Claims 33, [[34,]] 35, [[36]] 3 and 37.